



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005



Job No.: CTCE/BBMP/W.No.12/MEW/CEMENT/2014-15

Date: 25.08.2014



TEST REPORT

CLIENT	:	Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
AGENCY	:	M/s. Mahendra Engineering Works (Prop .G Venkatesh), Bangalore.
NAME OF THE WORK	:	Annual Maintenance of UGD in Venkatesh Reddy Badavane & Chowdaiah Badavane & Sonnappa Badavane at Abbigere in Ward No.12, in Shettyhalli Sub Division, BBMP, Bangalore.
REFERENCE	:	BBMP/DZ/AEE/SSD/PR/2014-15 Dated: 01.08.2014
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 1989-2013
1	Standard Consistency	IS-4031 (Part -4)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	485 Minutes	Not More than 600 Minutes
3	Soundness by the Le-Chatelier method	IS-4031 (Part 3)	1 mm	Not more than 10 mm

Note:

- ⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.
- ⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.
- ⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

Handwritten signature: Ravi N. K. - AE W-12

Handwritten signature: AE
ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಭಿಯಂತರರು
ಶಿಬ್ಬಹಳ್ಳಿ ಉಪವಿಭಾಗ, ಹಾಸರಹಳ್ಳಿ ಪಾಲಿಕೆ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

Handwritten signature: MVR
M/s. Civil-Tech Consultants & Engineers

23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.

Tele Fax : 23223227, Website : www.civiltechconsultants.com

E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005



Job No.: CTCE/BBMP/W.No.12/MEW/SAND/2014-15

: 25.08.2014

TEST REPORT ON FINE AGGREGATES IS 383-1970 (RA- 2002)



Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : M/s. Mahendra Engineering Works (Prop .G Venkatesh), Bangalore.

Name of Work : Annual Maintenance of UGD in Venkatesh Reddy Badavane & Chowdaiah Badavane & Sonnappa Badavane at Abbigeri in Ward No.12, in Shettyhalli Sub Division, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/SSD/PR/2014-15 Dated: 01.08.2014

Date of Testing : 25.08.2014

Material : Sand **Total Wt. of Aggregates in gms** 2000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	85	4.25	4.25	95.8	90-100
2.36	250	12.50	16.75	83.3	75-100
1.18	392	19.60	36.35	63.7	55-90
600 Micron	480	24.00	60.35	39.7	35-59
300 Micron	415	20.75	81.10	18.9	8-30
150 Micron	280	14.00	95.10	4.9	0-10

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.



Handwritten signature and text in Kannada:
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಧೀನದಲ್ಲಿ
ಅಧೀನದಲ್ಲಿ ಉಪನಿರ್ದೇಶಕರು, ದಾಖಲೆ ಮತ್ತು ಪರಿಶೀಲನೆ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಹಾ.ಎಂ ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

Handwritten signature and text:
Ravi.N.K.
- AE W-12

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.

Tele Fax : 23223227, Website : www.civiltechconsultants.com

E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005



Job No.: CTCE/BBMP/W.No.12/MEW/AGG/2014-15

: 25.08.2014



TEST REPORT ON COARSE AGGREGATES IS 383-1970 (RA- 2002)

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : M/s. Mahendra Engineering Works (Prop .G Venkatesh), Bangalore.

Name of Work : Annual Maintenance of UGD in Venkatesh Reddy Badavane & Chowdaiah Badavane & Sonnappa Badavane at Abbigeri in Ward No.12, in Shettyhalli Sub Division, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/SSD/PR/2014-15 Dated: 01.08.2014

Date of Testing : 25.08.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	900	3.60	3.60	96.40	95-100
20	16010	64.04	67.64	32.36	30-70
10	4105	16.42	84.06	15.94	10-35
4.75	3315	13.26	97.32	2.68	0-5

Note:

- The report shall not be reproduced, except in full, without the written approval of the laboratory.
- The results indicated above are based on the tests carried out on the samples received in the laboratory.
- Any Query regarding the report must be reported within 30 days from the date of testing.



Ravi N.K.
.. AEW-12

AE 12
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶಿಬಿರಪಟ್ಟಣ ಉಪವಿಭಾಗ, ಬಾಸವೇಶ್ವರನಗರ, ಬೆಂಗಳೂರು
ಜಿಲ್ಲಾಪಟ್ಟಣ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

MTR
M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shaktiganapathinagara,
Basaveshwaranagar,
Bangalore-560079:

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakti Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.

Tele Fax : 23223227, Website : www.civiltechconsultants.com

E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005



Job No.: CTCE/BBMP/W.No.12/MEW/AGG/2014-15

: 25.08.2014

TEST REPORT ON COARSE AGGREGATES IS 383-1970 (RA- 2002)



Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : M/s. Mahendra Engineering Works (Prop .G Venkatesh), Bangalore.
Name of Work : Annual Maintenance of UGD in Venkatesh Reddy Badavane & Chowdaiah Badavane & Sonnappa Badavane at Abbigere in Ward No.12, in Shettyhalli Sub Division, BBMP, Bangalore.
Reference : BBMP/DZ/AEE/SSD/PR/2014-15 Dated: 01.08.2014
Date of Testing : 25.08.2014

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Tabel - 1

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	115	2.30	2.3	97.70	95-100
10	3285	65.70	68.0	32.00	25-55
4.75	1215	24.30	92.3	7.70	0-10

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.



M/s. Civil-Tech Consultants & Engineers

23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಪ್ರಭುತ್ವ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

Ravi.N.K.
AEW-12



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005



Job No.: CTCE/BBMP/W.No.12/MEW/BRICKS/2014-15

Date: 25.08.2014

TEST REPORT

CLIENT	:	Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
AGENCY	:	M/s. Mahendra Engineering Works (Prop .G Venkatesh), Bangalore.
NAME OF THE WORK	:	Annual Maintenance of UGD in Venkatesh Reddy Badavane & Chowdaiah Badavane & Sonnappa Badavane at Abbigere in Ward No.12, in Shettyhalli Sub Division, BBMP, Bangalore.
REFERENCE	:	BBMP/DZ/AEE/SSD/PR/2014-15 Dated: 01.08.2014
SAMPLE ID	:	BRICKS
SAMPLES SUPPLIED BY	:	CLIENT



The results of the tests conducted on the samples are as follows:

Sl. No	Description	Test method as per IS Codes	Result	Requirement as per IS 1077-1992 (Rev-5)
1	Compressive Strength Of Bricks	IS 3495-1992 (Part-1)	5.85 N/mm ²	Class designation 5.0
2	Water Absorption of Bricks	IS 3495-1992 (Part - 2)	9.50 %	Not more than 20 %
3	Efflorescence of Bricks	IS 3495-1992 (Part - 3)	Moderate	Up to 12.5 Class
4	Dimensional Analysis of Bricks (minimum Sampling is 20 Nos)	IS 1077-1992 (Rev - 5)		
(a)	Measurement of Length in mm		4670 mm	(4600 ± 80 mm)
(b)	Measurement of Width in mm		2235 mm	(2200 ± 40 mm)
(c)	Measurement of Height in mm		1435 mm	(1400 ± 40 mm)

Note:

- ⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.
- ⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.
- ⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

Ravi.N.K.
AEW-12

AEW-12

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.

Tele Fax : 23223227, Website : www.civiltechconsultants.com

E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005



No.: CTCE/BBMP/W.No.12/MEW/SWGPipe/2014-15

25.08.2014

Test Report Of Glazed Stoneware Pipes

Client	Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency	M/s. Mahendra Engineering Works (Prop .G Venkatesh), Bangalore.
Name of the work	Annual Maintenance of UGD in Venkatesh Reddy Badavane & Chowdaiah Badavane & Sonnappa Badavane at Abbigeri in Ward No.12, in Shettyhalli Sub Division, BBMP, Bangalore.
Reference	BBMP/DZ/AEE/SSD/PR/2014-15 Dated: 01.08.2014
Type of Sample	Glazed Stoneware Pipe(300mm dia)SP-1 Class
Technical Reference	As Per IS-651:2007 (VI revision)
Date of Testing	25.08.2014



Sl no	Internal Diameter	Thickness of Pipe	% absorption	% of Acid Resistance	Crushing Strength kN/m
1	300mm	25mm	6.2	1.80	17.95
2	300mm	25mm	6.4	1.85	18.15
3	300mm	25mm	6.6	1.91	18.23
Requirements as per IS-651:2007(VI Revision)	-----	-----	Maximum 7%	Not Exceed 2.5%	Minimum 16kN/m

Note:

1. This test report should not be reproduced except in full, without written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

*Raw.NIL-
AEW-12*

AE12

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶಬ್ದಕಟ್ಟು ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.



#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.

Tele Fax : 23223227, Website : www.civiltechconsultants.com

E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com